

FIG. 1  
(PRIOR ART)

FIG. 2 is a block diagram of a psychoacoustic model for audio compression. The diagram shows a sequence of processing blocks: Input PCM, MDCT, DCT, Q, and Huffman. The output of the Huffman block is the Output bitstream. A feedback loop is shown from the MDCT block to a Psychoacoustic model block, which then feeds into the Q block.

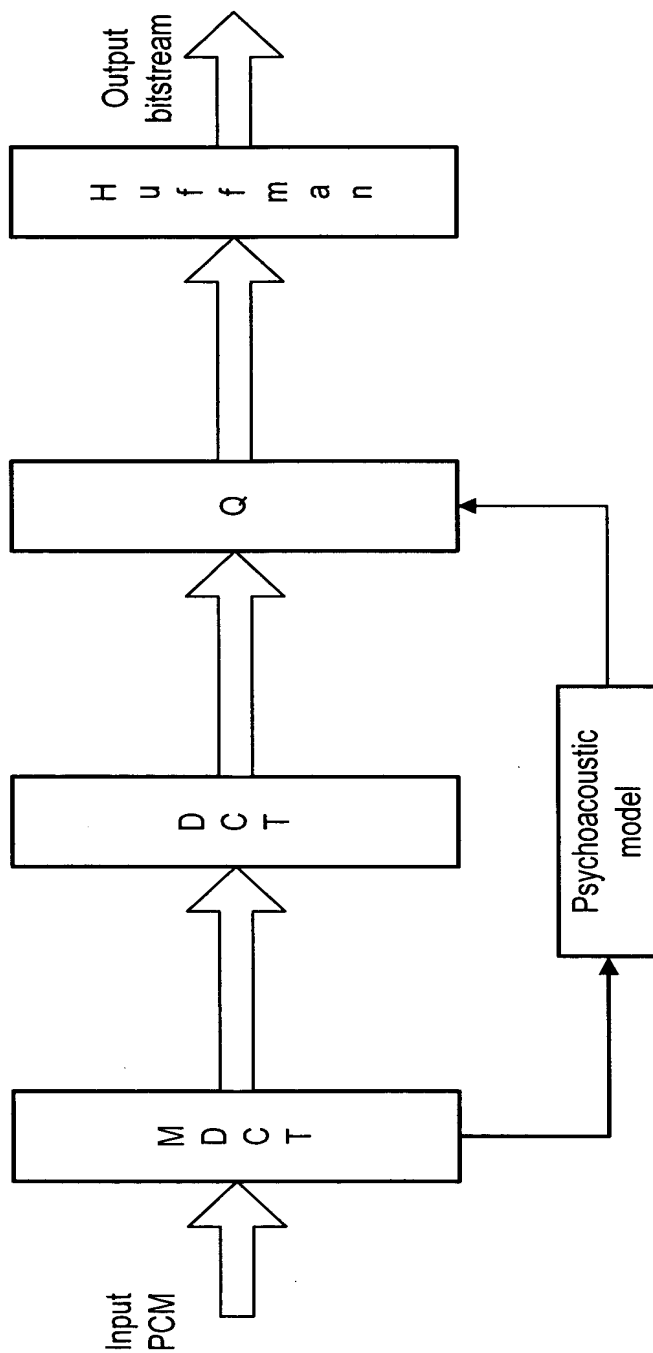


FIG. 2

FIG. 3 is a block diagram of a system 10 for processing audio data. The system 10 includes an input PCM block 100, an MDCT block 30, a psychoacoustic model block 50, a quantization block Q 40, an INTDCT block 60, a Huffman block 70, and an output bitstream block 140. The input PCM block 100 provides input to the MDCT block 30. The MDCT block 30 provides output 110 to the quantization block Q 40. The MDCT block 30 also provides output to the psychoacoustic model block 50. The psychoacoustic model block 50 provides output to the quantization block Q 40. The quantization block Q 40 provides output 120 to the INTDCT block 60. The INTDCT block 60 provides output 130 to the Huffman block 70. The INTDCT block 60 also provides output 122 to a comparison device block 80. The Huffman block 70 provides output 140 to the output bitstream block 140. The comparison device block 80 provides output 124 to the INTDCT block 60 and output 126 to the Huffman block 70.

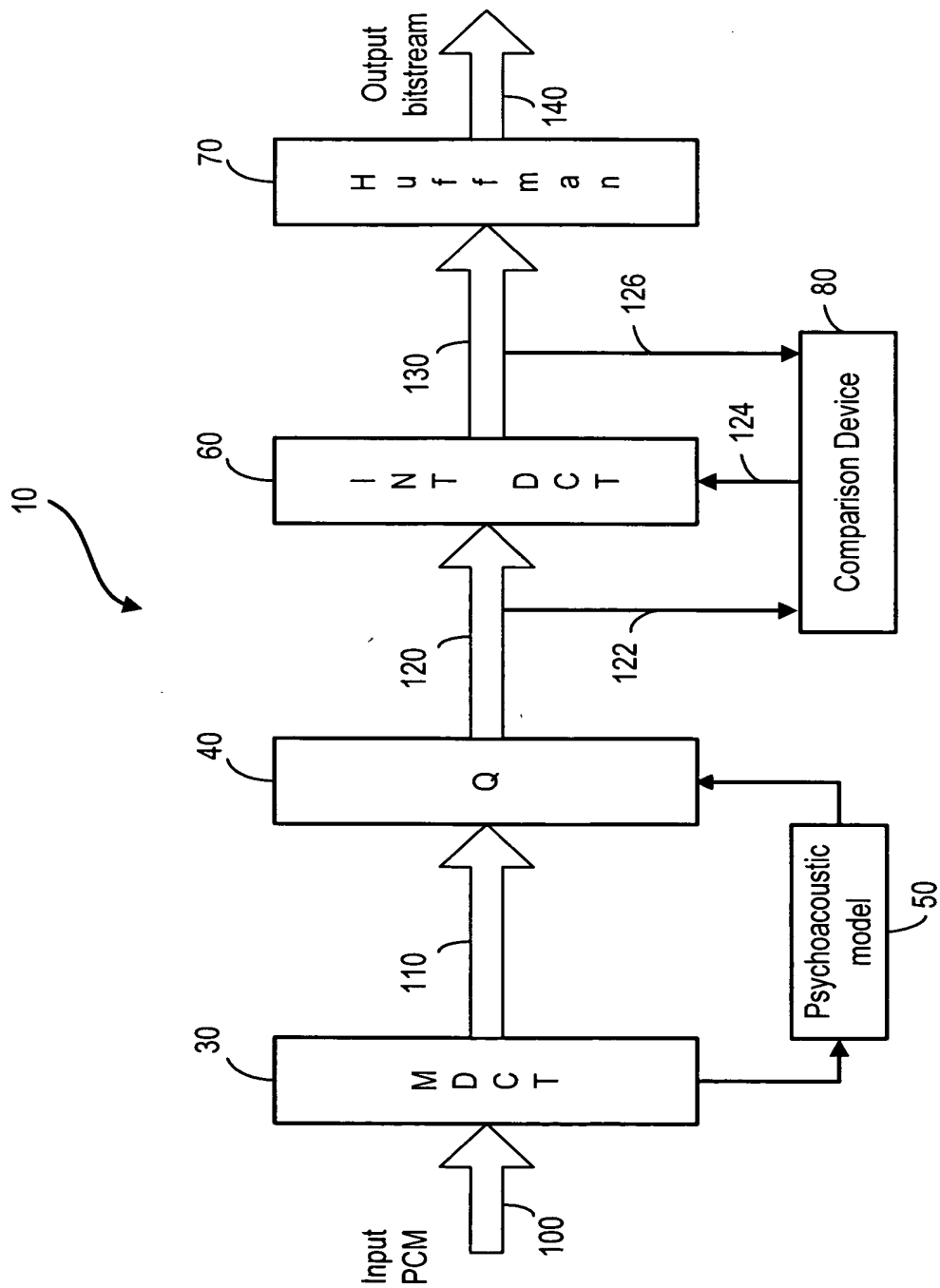


FIG. 3

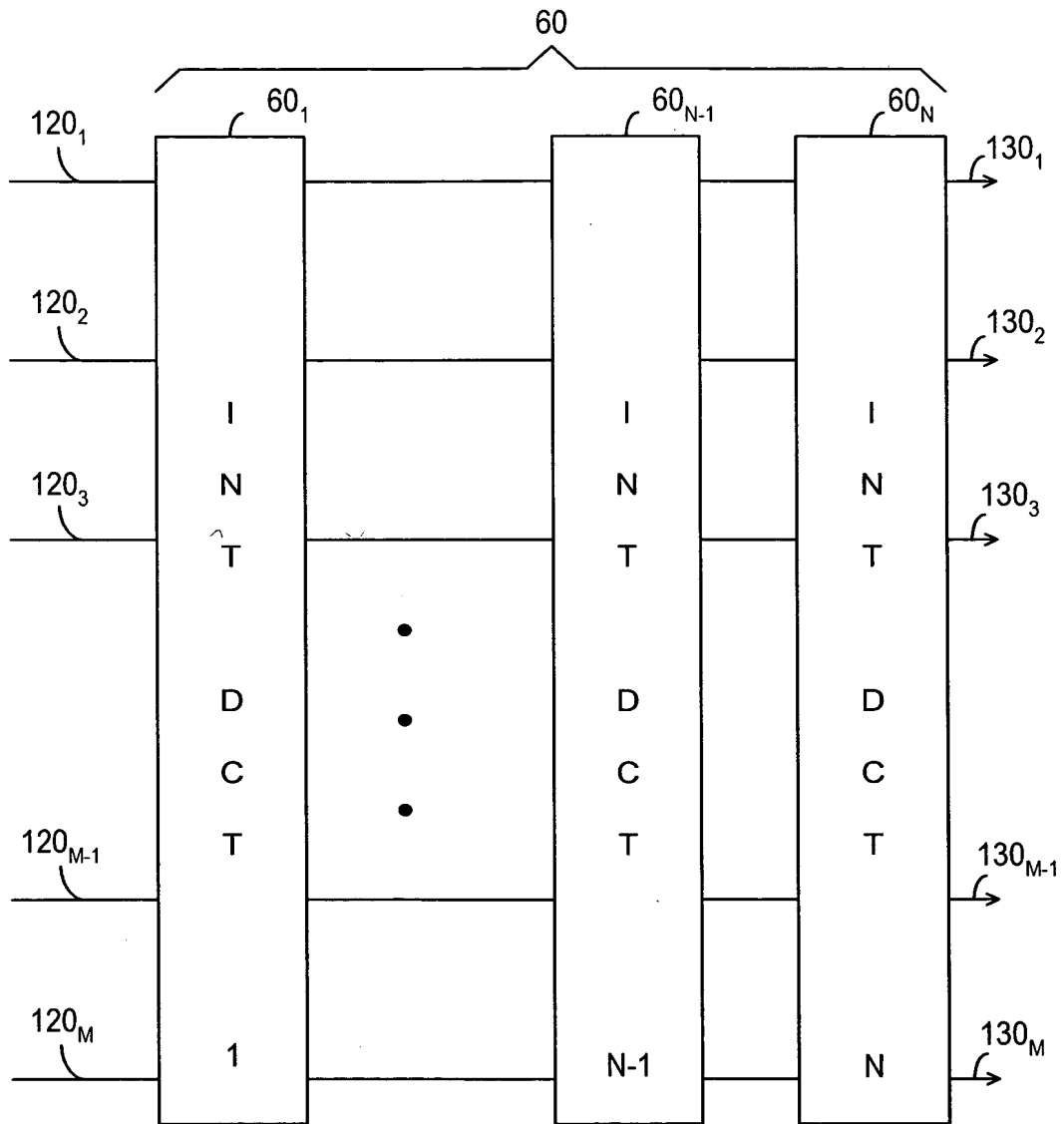


FIG. 4a

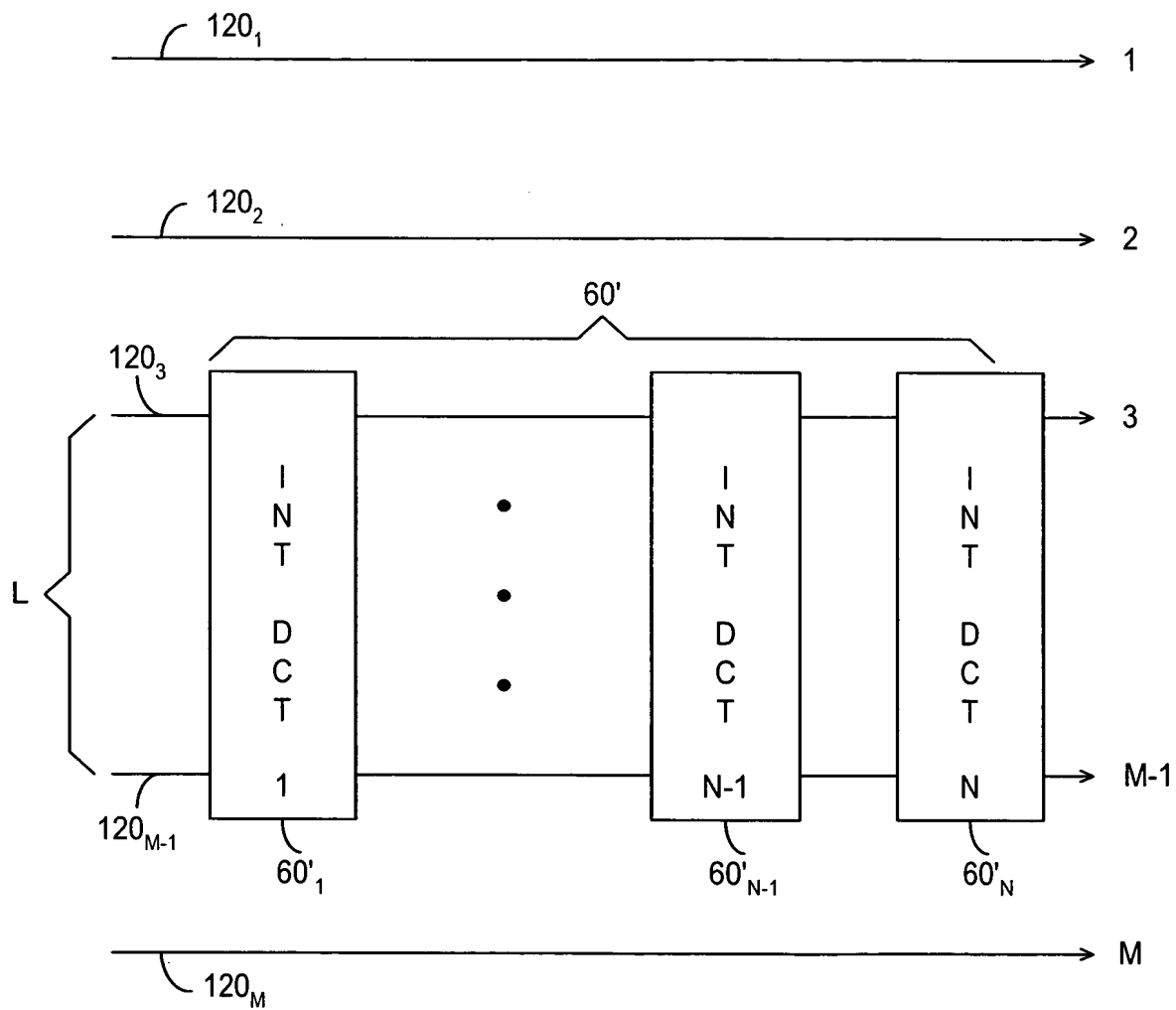


FIG. 4b

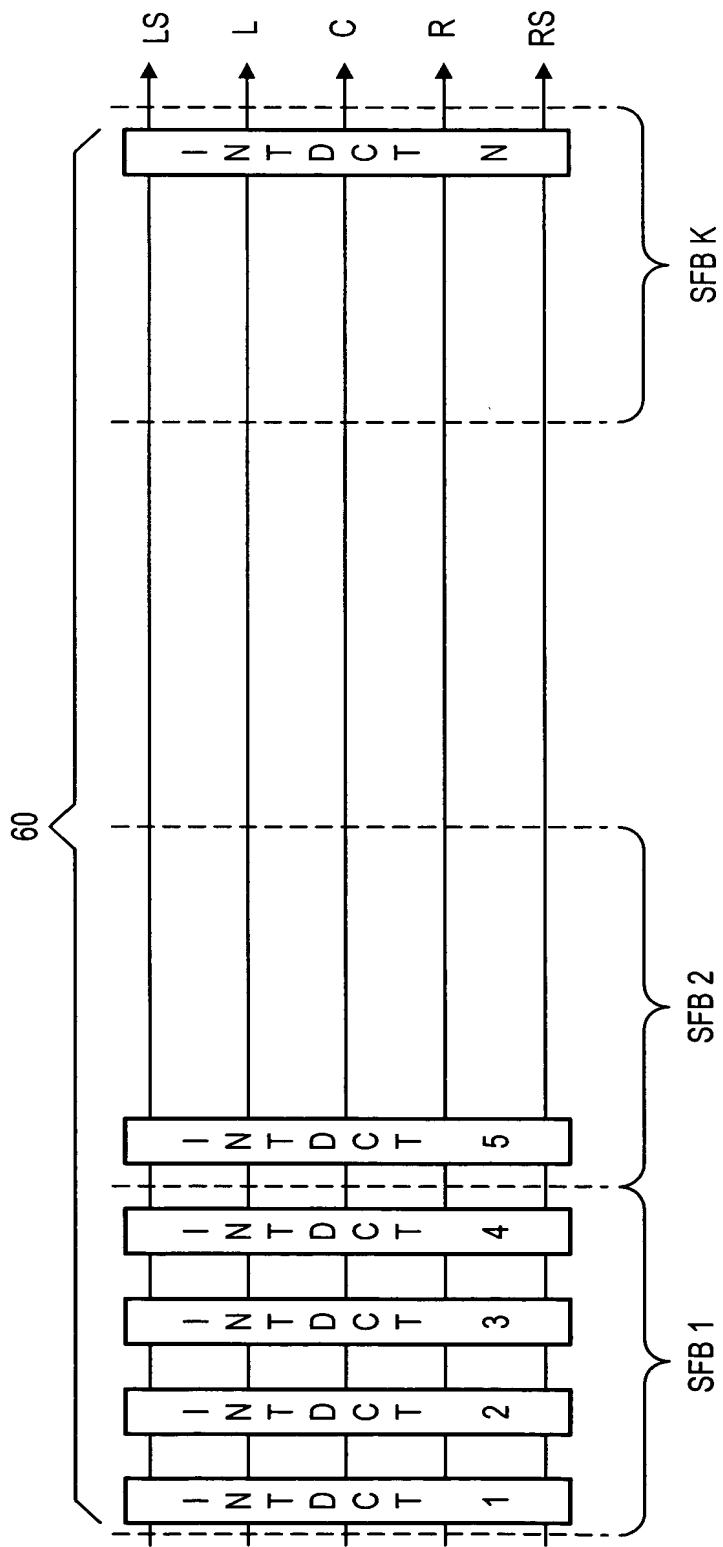
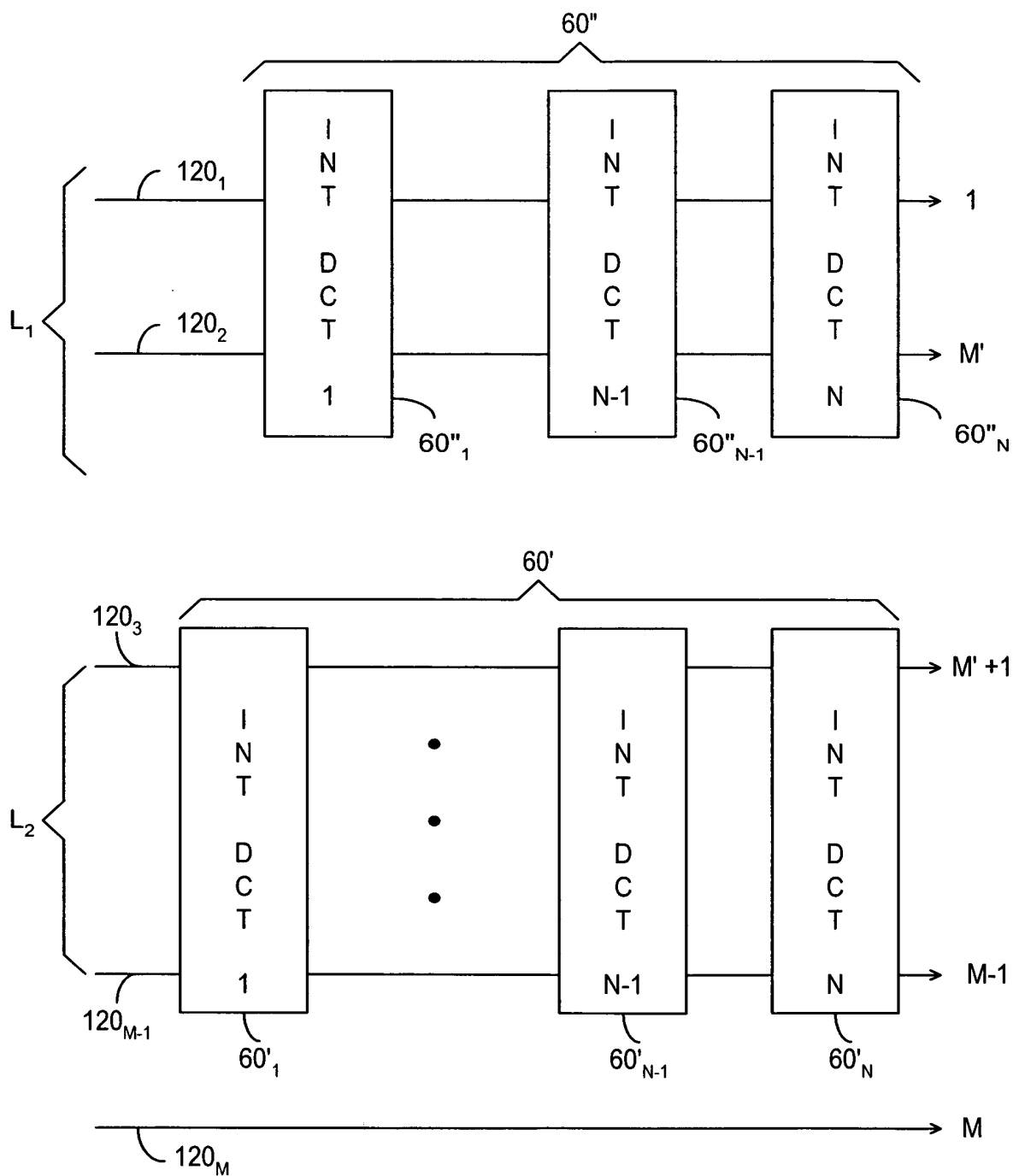
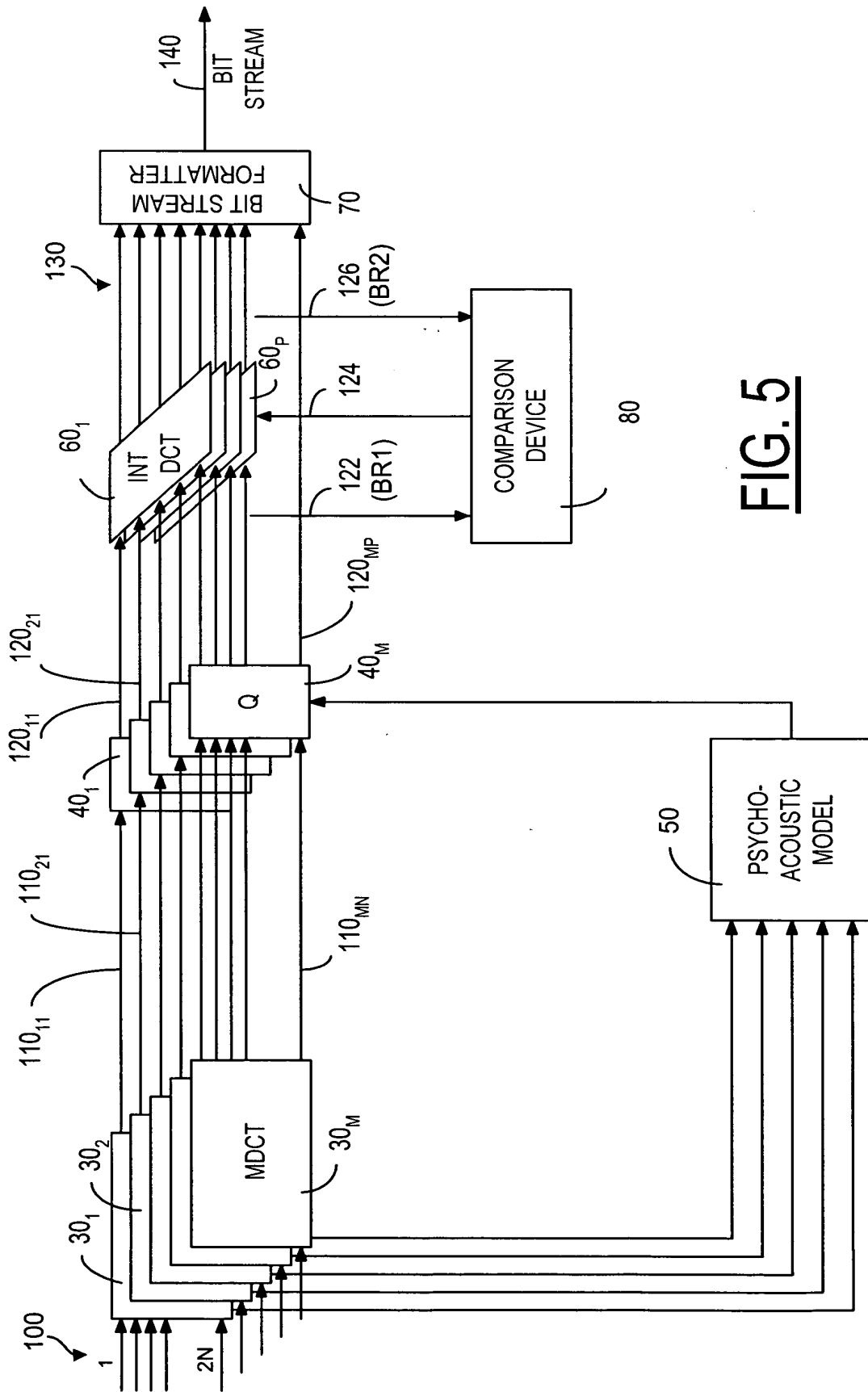


FIG. 4c



**FIG. 4d**



**FIG. 5**